

14.

Eastern Pacific Expeditions
of the New York Zoological Society, XIV.

Introduction, Itinerary, List of Stations, Nets and Dredges of the
Eastern Pacific *Zaca* Expedition, 1937-1938.¹

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(Text-figures 1 & 2).

[This is the fourteenth of a series of papers dealing with the collections made in the eastern Pacific by the expeditions of the New York Zoological Society. The first thirteen of the series appeared under the heading of "The Templeton Crocker Expedition." As it is necessary to simplify the titles of future reports, all publications dealing with the materials gathered in this region will appear from now on under the title of the "Eastern Pacific Expeditions of the New York Zoological Society." Under this name will appear the results of work of the *Noma* (1923), *Arcturus* (1925), *Antares* (1933), Templeton Crocker (1936) and the Eastern Pacific *Zaca* (1937-1938) Expeditions.]

INTRODUCTION.

The Twenty-sixth Expedition of the Department of Tropical Research was made possible by Mr. Templeton Crocker's generous offer of the use of his yacht *Zaca* for the second time. Mr. Crocker accompanied the expedition together with his friend Mr. Maurice Willows. The scientific personnel was the same as on the first trip and consisted of four members of the Tropical Research Department, Dr. William Beebe, Director; Mr. John Tee-Van, General Associate; Miss Jocelyn Crane, Technical Associate; and Mr. George Swanson, Artist. Toshio Asaeda was, as before, photographer and preparateur, and together with Captain Alfred Pedersen and the entire crew were most efficient and helpful in every way.

The *Zaca* is a Diesel schooner, 118 feet over all, with a gross tonnage of 84. She is supplied with all of the usual apparatus for capturing fish and animals, such as seines, nets, submerged lights, etc.; in addition Mr. Crocker provided for these expeditions, a gasoline-engined winch and a 7,500-foot length of $\frac{1}{4}$ -inch-diameter steel cable. With this apparatus we were able to trawl down to a maximum depth of 500 fathoms and to dredge on the bottom with deep-sea dredges. Two valuable features of the vessel were the bow pulpit and the boom-walk copied after those which I first used on the *Arcturus* in 1925.

¹ Contribution Number 560, Department of Tropical Research, New York Zoological Society. For corresponding List of Stations of the First *Zaca* Trip, see *Zoologica*, Vol. XXII, No. 2.

ITINERARY.

The route of the expedition is shown on the two accompanying maps. We left San Diego on November 6, 1937, and disbanded at Balboa on April 5, 1938. The route is indicated by the successive numbers of the Stations.

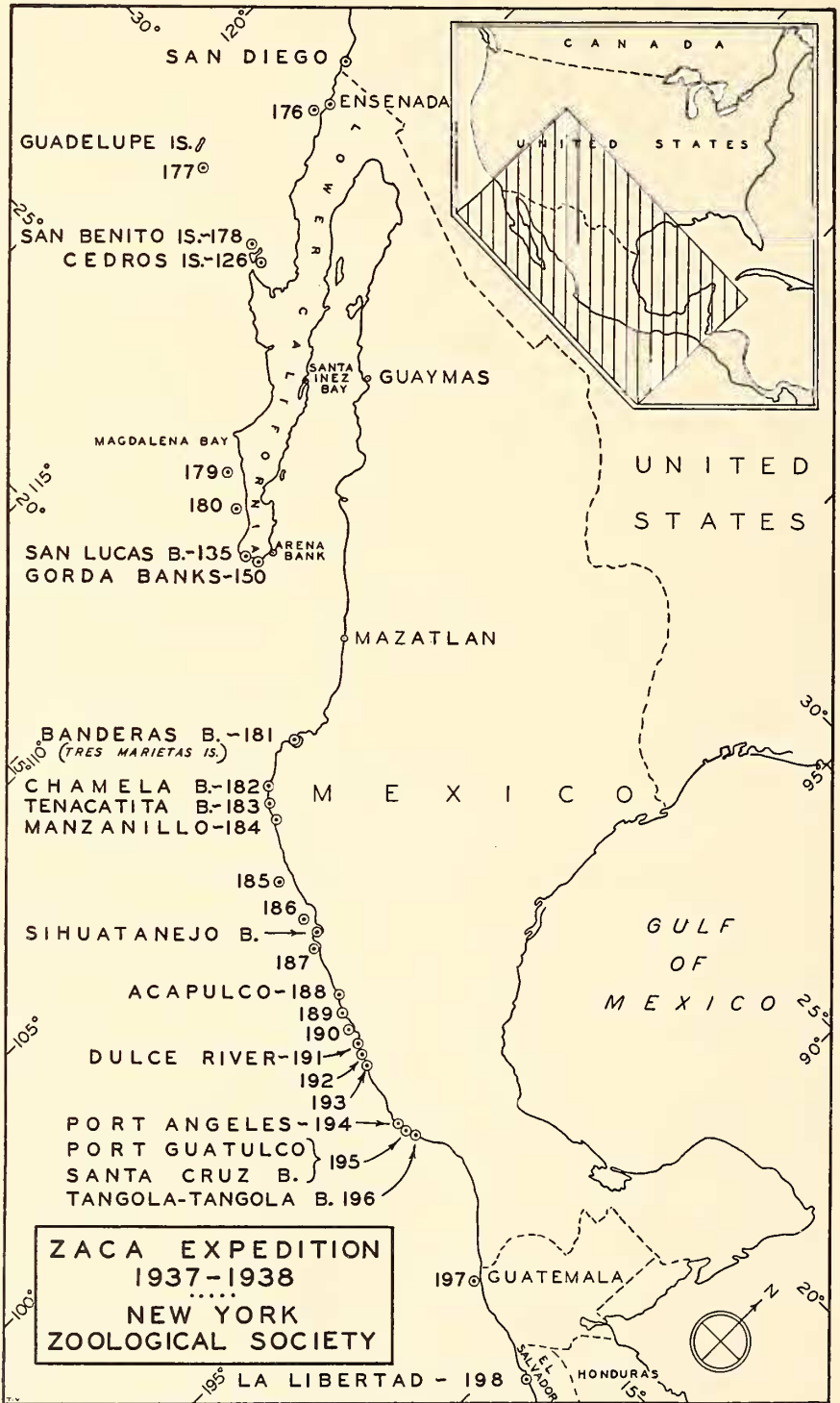
The dates and time spent at the various localities are as follows: San Diego, November 5; MEXICO: Ensenada, November 6; Guadalupe Island, November 8; San Benito Islands, November 9 and 10; Cedros Island, November 10; Cape San Lucas, November 13; Penas, Banderas Bay, November 15 and 16; Chamela Bay, November 17 to 20; Tenacatita Bay, November 20; Manzanillo, November 21 and 22; Sihuatanejo Bay, November 24; Acapulco, November 25 to 29; Port Angeles, December 1; Port Guatulco, December 2 to 7; Santa Cruz Bay, December 7 and 8; Tangola-Tangola, December 8 to 13; EL SALVADOR: La Libertad, December 16 to 19; La Union, December 20 and 21; Meanguera Island, December 21 and 22; Farrallone Islands, December 22; Conchaguita Island, December 22; La Union, December 22 and 23, and 26 and 27; NICARAGUA: Potosi River, December 23 to 25; Monypenny Point, December 25 and 26; Corinto, December 28 to January 7; San Juan del Sur, January 9 to 12; COSTA RICA: Port Parker, January 12 to 23; Murcielago Bay, January 23; Potrero Grande Bay, January 23 and 24; Port Culebra, January 24 to 31; Cocos Bay, January 26, 29 and 31; Braxilito Bay, January 31 to February 1; Piedra Blanca Bay, February 1 to 6; Puntarenas, February 11 and 12; Cedro Island, February 12 and 13; Puntarenas, February 13 to 21; Cedro Island, February 21 and 22; Negritas Island, February 22; Jasper Island, February 22 to 25; Ballenas Bay, February 25 and 26; Puntarenas, February 28 to March 1; Uvita Bay, March 2 to 4; Golfito, Gulf of Dulce, March 5 to 9; Pavon Bay, March 9 and 10; PANAMA: Puerto Armuelles, March 11; Parida Island, March 11 to 13; Bahia Honda, March 13 to 19; Hermosa Bay, Coiba Island, March 19 and 20; Hannibal Bank, March 20; Balboa, C.Z., March 22 to 24; COLOMBIA: Gorgona Island, March 27 to April 2; PANAMA: Balboa, April 5.

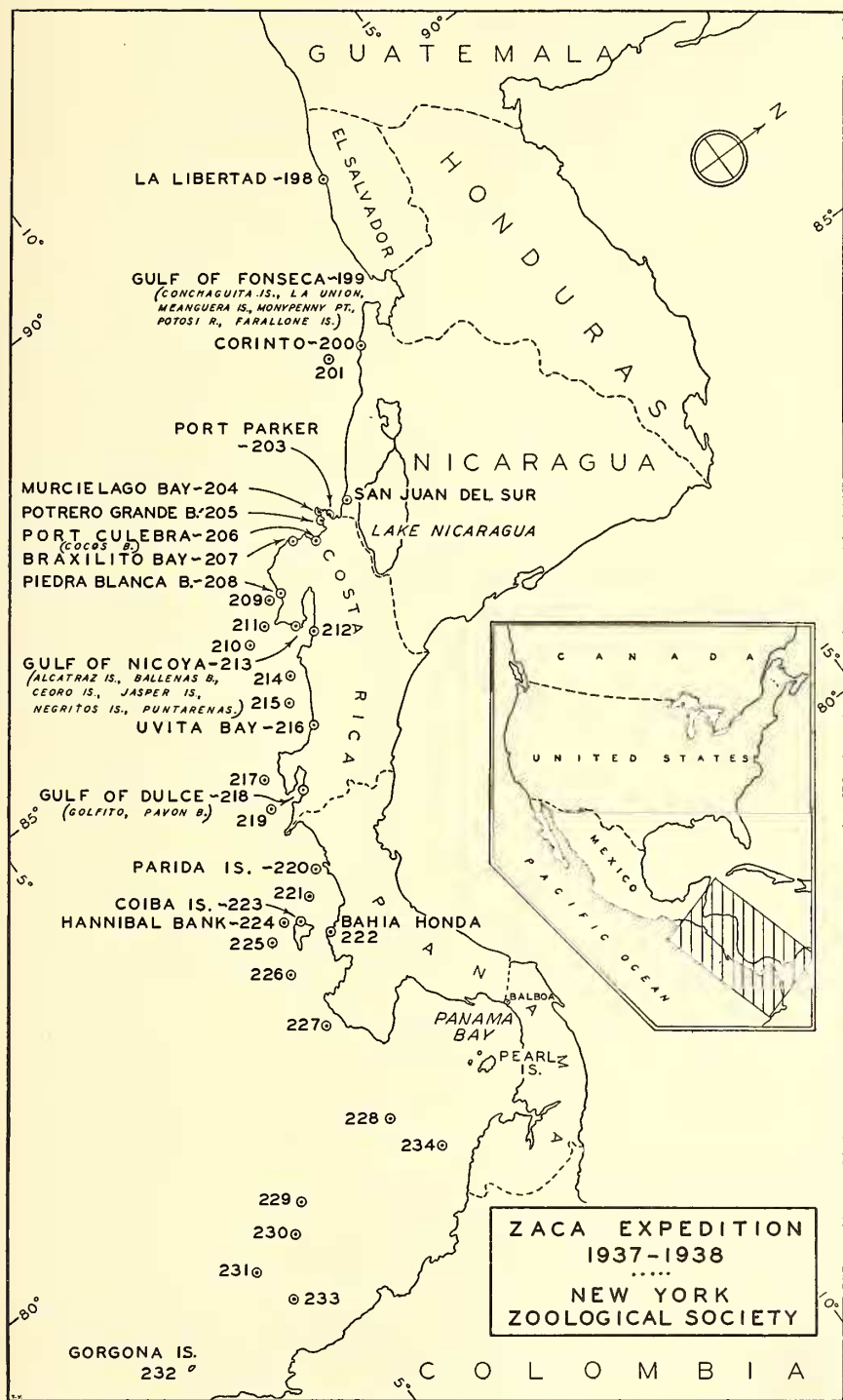
LIST OF STATIONS, NETS AND DREDGES.

The data presented in the following tables are self-explanatory. Abbreviations are as follows: The Station numbers refer to the continuously numbered series of oceanographic stations of the Department of Tropical Research. In the second column the letter "D" refers to dredges, "T" to tow-nets and "L" to submarine night lights. Hence, 182, D-1 means the first dredge drawn at Station 182.

In the third column the dredges are separated into two- and four-foot ones, the measurement being across the mouth. Both sizes were of the Blake type, the bags being of two-inch and one-inch mesh respectively. The small dredges were drawn from launch or dory, the large ones being handled from the deck of the yacht, using the quarter-inch steel cable. The tow-nets of one-half and one metre diameter were of standard Michael Sars' type, with 2XX silk bolting cloth posteriorly and OXX bolting cloth anteriorly, the mouth of the net having a collar of shrimp netting. The lights indicated refer to night stations, where submerged electric lights were employed, and the captures made by the use of long-handled dip-nets.

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1937 | Bottom | Duration | | |
|-------------|---------|-------------|-----------|--------|-------------|--------------|-------------------------------------|------------------------------|-------------------------|------------|-------|----|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. | |
| 126 | D-13 | 4' dredge | 45 | 82 | 28° 12' | 115° 07' | E. of Cedros Is., Mex. | Nov. 10 | Mud, algae. | — | 10 | |
| | D-14 | 4' dredge | 45 | 82 | 28° 10' | 115° 08' | " | 10 | " | — | 10 | |
| | D-15 | 4' dredge | 42 | 76 | 28° 09' | 115° 08' | " | 10 | Mud. | — | 10 | |
| | D-16 | 4' dredge | 42 | 76 | 28° 07' | 115° 08' | " | 10 | " | — | 20 | |
| | D-17 | 4' dredge | 40 | 73 | 28° 05' | 115° 09' | " | 10 | " | — | 10 | |
| | D-18 | 4' dredge | 20 | 36 | 28° 01' | 115° 10' | SE. of Cedros Is., Mex. | 10 | Rocks, algae. | — | 10 | |
| | D-19 | 4' dredge | 25 | 45 | 27° 59' | 115° 09' | " | 10 | " | — | 10 | |
| | 135 | D-27 | 2' dredge | 2-6 | 3.6-11 | 22° 53' | 109° 54' | San Lucas Bay, Mex. | 13 | Sand. | — | 20 |
| | 150 | D-27 | 4' dredge | 60 | 108 | 23° 01' | 109° 28' | Gorda Banks, Mex. | 13 | " | — | 20 |
| 176 | L-1 | Light | — | — | 31° 25' | 116° 58' | 23 m. S.W. of Banda Point, Mex. | 7 | — | 1 | 10 | |
| 177 | L-1 | Light | — | — | 28° 42' | 117° 50' | 30 m. E.x.S. of Guadalupe Is., Mex. | 8 | — | — | 30 | |
| 178 | L-1 | Light | — | — | 28° 18' | 115° 34' | San Benito Is., Mex. | 9 | — | 2 | 00 | |
| 179 | T-1 | ½ Metre | 0 | 0 | 24° 02' | 111° 38' | 18 m. SSE. of Pt. Tosca, Mex. | 12 | — | — | 10 | |
| 180 | T-1 | ½ Metre | 0 | 0 | 23° 31' | 110° 54' | 65 m. NW. of Cape Falso, Mex. | 12 | — | — | 10 | |
| 181 | L-1 | Light | — | — | 20° 36' 30" | 105° 16' | Banderas Bay, Mex. | 15 | — | 2 | 0 | |
| 182 | D-1 | 4' dredge | 8 | 14.5 | 19° 34' 30" | 105° 08' 15" | Chamela Bay, Mex. | 17 | Sand, algae. | — | 10 | |
| | D-2 | 4' dredge | 12 | 22 | 19° 34' | 105° 07' 30" | " | 17 | " | — | 10 | |
| | D-3 | 4' dredge | 15 | 27 | 19° 33' 45" | 105° 07' 45" | " | 17 | " | — | 10 | |
| | D-4 | 4' dredge | 16 | 29 | 19° 33' 30" | 105° 08' 15" | " | 17 | Sand, algae, cr. shell. | — | 10 | |
| | L-1 | Light | — | — | 19° 34' 45" | 105° 08' 30" | " | 17 | — | 2 | 0 | |
| | L-2 | Light | — | — | 19° 34' 45" | 105° 08' 30" | " | 18 | — | 2 | 0 | |
| | 183 | D-1 | 4' dredge | 15 | 27 | 19° 17' | 104° 51' | Tenacatita Bay, Mex. | 21 | Sand. | — | 10 |
| | | D-2 | 4' dredge | 30 | 54 | 19° 15' 30" | 104° 51' | " | 21 | Muddysand. | — | 15 |
| | | D-3 | 4' dredge | 40 | 73 | 19° 14' 30" | 104° 51' 30" | " | 21 | Sandy mud. | — | 15 |
| D-4 | | 4' dredge | 40 | 73 | 19° 14' 30" | 104° 52' 30" | " | 21 | Mud. | — | 15 | |
| L-1 | | Light | — | — | 19° 18' | 104° 51' | " | 20 | — | 2 | 30 | |
| 184 | D-1 | 4' dredge | 25 | 45 | 19° 03' 45" | 104° 20' 45" | Manzanillo, Mex. | 22 | Sand. | — | 10 | |
| | D-2 | 4' dredge | 30 | 55 | 19° 04' | 104° 22' | " | 22 | Gravly sand. | — | 20 | |
| | L-1 | Light | — | — | 19° 03' 30" | 104° 19' 45" | " | 21 | — | 3 | 0 | |
| | 185 | T-1 | Metre | 300 | 545 | 17° 45' | 103° 05' | 43 m. SE. of Pt. Telmo, Mex. | 23 | — | 2 | 0 |
| 186 | T-2 | Metre | 400 | 730 | 17° 45' | 103° 05' | " | 23 | — | 2 | 0 | |
| | T-3 | Metre | 500 | 910 | 17° 45' | 103° 05' | " | 23 | — | 2 | 0 | |
| | T-4 | ½ Metre | 0 | 0 | 17° 45' | 103° 05' | " | 23 | — | 0 | 30 | |
| | L-1 | Light | — | — | 17° 38' | 102° 00' | 20 m. W. of Sihuatanejo, Mex. | 23 | — | 2 | 30 | |
| 187 | L-1 | Light | — | — | 17° 17' | 101° 16' | 72 m. WNW. of Acapulco, Mex. | 24 | — | 0 | 30 | |
| 188 | L-1 | Light | — | — | 16° 15' 30" | 99° 55' 30" | Acapulco, Mex. | 25 | — | 2 | 0 | |
| | L-2 | Light | — | — | 16° 15' 30" | 99° 55' 30" | " | 26 | — | 2 | 0 | |
| | L-3 | Light | — | — | 16° 15' 30" | 99° 55' 30" | " | 27 | — | 2 | 0 | |
| | L-4 | Light | — | — | 16° 15' 30" | 99° 55' 30" | " | 28 | — | 2 | 0 | |
| 189 | D-1 | 4' dredge | 20 | 36 | 16° 40' | 99° 43' 30" | 17 m. SE.xE. of Acapulco, Mex. | 29 | Sandy mud, algae. | — | 10 | |
| | D-2 | 4' dredge | 20 | 36 | 16° 39' 30" | 99° 42' | " | 29 | " | — | 20 | |
| | D-3 | 4' dredge | 13 | 23.5 | 16° 39' | 99° 41' | " | 29 | Mud. | — | 10 | |
| | D-4 | 4' dredge | 28 | 51 | 16° 38' 30" | 99° 40' | " | 29 | " | — | 14 | |
| 190 | L-1 | Light | — | — | 16° 30' | 99° 13' | 45 m. ESE. of Acapulco, Mex. | 29 | — | 1 | 0 | |
| 191 | D-1 | 2' dredge | 8 | 14.5 | 16° 29' | 98° 45' | Mouth of Dulce Riv., Mex. | 30 | — | 0 | 10 | |
| 192 | D-1 | 4' dredge | 26 | 47 | 16° 16' 30" | 98° 37' | 4 m. SSW. of Maldonado Pt., Mex. | 30 | Mud. | — | 10 | |





| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1937 | Bottom | Duration | |
|-------------|-----------|-------------|---------|-------------|-------------|----------------------|----------------------------------|----------------------|----------------------------------|----------|-------|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. |
| 192 | D-2 | 4' dredge | 33 | 60 | 16° 16' | 98° 36' | 4 m. SSW. of Maldonado Pt., Mex. | Nov. 30 | Sand. | — | 10 |
| | D-3 | 4' dredge | 38 | 69 | 16° 15' | 98° 35' 30" | " | 30 | Mud. | — | 10 |
| 193 | L-1 | Light | — | — | 16° 05' | 98° 17' | 21 m. SE. of Maldonado Pt., Mex. | 30 | — | 1 | 10 |
| 194 | L-1 | Light | — | — | 15° 39' 15" | 96° 30' 40" | Port Angeles, Mex. | Dec. 1 | — | 3 | 0 |
| 195 | D-1 | 2' dredge | 2.5 | 4.5 | 15° 44' 56" | 96° 08' 03" | Port Guatulco, Mex. | 4 | Sand, algae. | — | 3 |
| | D-2 | 2' dredge | 3 | 5.5 | 15° 44' 51" | 96° 07' 51" | " | 4 | Sand. | — | 4 |
| | D-3 | 2' dredge | 3.5 | 6.3 | 15° 44' 45" | 96° 07' 53" | " | 4 | Sand, cr. shell | — | 3 |
| | D-4 | 2' dredge | 4.5 | 8.2 | 15° 44' 40" | 96° 07' 53" | " | 4 | Sand, algae, cr. shell. | — | 3 |
| | D-5 | 2' dredge | 2 | 3.6 | 15° 44' 50" | 96° 08' 09" | " | 5 | Sand, algae. | — | 3 |
| | D-6 | 2' dredge | 3 | 5.4 | 15° 44' 45" | 96° 08' 05" | " | 5 | Sand, algae, cr. shell. | — | 3 |
| | D-7 | 2' dredge | 4.5 | 8.2 | 15° 44' 35" | 96° 08' | " | 5 | Rocks. | — | 3 |
| | D-8 | 2' dredge | 6 | 11 | 15° 44' 30" | 96° 07' 56" | " | 5 | Sand, algae, cr. shell. | — | 3 |
| | D-9 | 2' dredge | 7 | 12.6 | 15° 44' 28" | 96° 07' 51" | " | 5 | Gr. sand, cr. shell. | — | 5 |
| | D-10 | 2' dredge | 4 | 7.3 | 15° 44' 53" | 96° 08' 03" | " | 6 | Gr. sand, cr. shell, dead coral. | — | 3 |
| | D-11 | 2' dredge | 5 | 9.1 | 15° 44' 49" | 96° 07' 59" | " | 6 | Gr. sand, cr. shell. | — | 4 |
| | D-12 | 2' dredge | 6 | 11 | 15° 44' 42" | 96° 07' 55" | " | 6 | Sand. | — | 3 |
| | D-13 | 2' dredge | 8 | 14.6 | 15° 44' 33" | 96° 07' 49" | " | 6 | " | — | 3 |
| | D-14 | 2' dredge | 4 | 7.3 | 15° 44' 27" | 96° 07' 57" | " | 6 | Coral. | — | 5 |
| | D-15 | Diving | 1.5 | 2.7 | 15° 44' 54" | 96° 07' 57" | " | 6 | " | 1 | 0 |
| | D-16 | 2' dredge | 10 | 18.2 | 15° 44' 35" | 96° 07' 45" | " | 7 | Sand. | — | 3 |
| | D-17 | 2' dredge | 6 | 11 | 15° 44' 39" | 96° 07' 42" | " | 7 | " | — | 5 |
| | D-18 | 2' dredge | 6 | 11 | 15° 44' 39" | 96° 07' 49" | " | 7 | " | — | 3 |
| | D-19 | 4' dredge | 17 | 31 | 15° 44' 22" | 96° 07' 27" | " | 7 | Gr. mud, cr. shell. | — | 5 |
| D-20 | 4' dredge | 23 | 42 | 15° 44' 22" | 96° 07' 08" | " | 7 | Mud. | — | 10 | |
| D-21 | 4' dredge | 18 | 33 | 15° 44' 45" | 96° 06' 55" | Santa Cruz Bay, Mex. | 7 | " | — | 10 | |
| 196 | L-1 | Light | — | — | 15° 44' 45" | 96° 08' | Port Guatulco, Mex. | 3 | — | 1 | 30 |
| | L-2 | Light | — | — | 15° 44' 45" | 96° 08' | " | 4 | — | 2 | 0 |
| | L-3 | Light | — | — | 15° 44' 45" | 96° 08' | " | 5 | — | 2 | 30 |
| | D-1 | 2' dredge | 5 | 9 | 15° 45' 58" | 96° 06' | Tangola-Tangola Bay, Mex. | 9 | Gr. sand. | 0 | 3 |
| | D-2 | 2' dredge | 5.5 | 10 | 15° 45' 53" | 96° 05' 57" | " | 9 | Sand. | 0 | 3 |
| | D-3 | 2' dredge | 7 | 12.8 | 15° 45' 48" | 96° 05' 54" | " | 9 | " | 0 | 3 |
| | D-4 | 2' dredge | 8 | 14.5 | 15° 45' 44" | 96° 05' 52" | " | 9 | " | 0 | 3 |
| | D-5 | 2' dredge | 9 | 16.3 | 15° 45' 40" | 96° 05' 50" | " | 9 | " | 0 | 5 |
| | D-6 | 2' dredge | 7 | 12.8 | 15° 45' 34" | 96° 06' 02" | " | 9 | Sand, cr. shell. | 0 | 5 |
| | D-7 | 2' dredge | 6 | 11 | 15° 45' 34" | 96° 06' 03" | " | 9 | Sand. | 0 | 4 |
| | D-8 | 2' dredge | 9 | 16.3 | 15° 45' 37" | 96° 05' 54" | " | 9 | " | 0 | 5 |
| | D-9 | 2' dredge | 7.5 | 13.6 | 15° 45' 45" | 96° 05' 59" | " | 12 | " | 0 | 3 |
| | D-10 | 2' dredge | 5 | 9.1 | 15° 45' 51" | 96° 06' 01" | " | 12 | " | 0 | 3 |
| | D-11 | 2' dredge | 4.5 | 8.2 | 15° 45' 57" | 96° 06' 02" | " | 12 | " | 0 | 3 |
| | D-12 | 2' dredge | 4 | 7.3 | 15° 46' 02" | 96° 05' 58" | " | 12 | " | 0 | 5 |
| D-13 | 2' dredge | 10 | 18 | 15° 45' 32" | 96° 05' 52" | " | 12 | Gr. sand, cr. shell. | 0 | 3 | |
| D-14 | 2' dredge | 5 | 9.1 | 15° 45' 34" | 96° 06' 03" | " | 12 | Cr. shell. | 0 | 5 | |
| D-15 | 2' dredge | 5 | 9.1 | 15° 45' 34" | 96° 06' 03" | " | 12 | Cr. shell. | 0 | 5 | |

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1937 | Bottom | Duration | |
|-------------|---------|-------------|---------|--------|--------------|--------------|--|-----------|-----------------------|----------|-------|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. |
| | | | | | | | | | | | |
| 196 | D-16 | 4' dredge | 16 | 29 | 15° 45' 22'' | 96° 05' 51'' | Tangola-Tangola Bay, Mex. | Dec. 13 | Mud. | 0 | 5 |
| | D-17 | 4' dredge | 23 | 42 | 15° 45' | 96° 05' 34'' | " | 13 | " | 0 | 3 |
| | D-18 | 4' dredge | 30 | 55 | 15° 44' 58'' | 96° 05' 13'' | " | 13 | " | 0 | 3 |
| | D-19 | 4' dredge | 30 | 55 | 15° 44' | 96° 05' | " | 13 | " | 0 | 3 |
| | D-20 | 4' dredge | 50 | 91 | 15° 43' 15'' | 95° 04' 15'' | " | 13 | " | 0 | 4 |
| | L-1 | Light | — | — | 15° 45' 40'' | 96° 06' 05'' | " | 8 | — | 1 | 0 |
| | L-2 | Light | — | — | 15° 45' 40'' | 96° 06' 05'' | " | 9 | — | 1 | 0 |
| | L-3 | Light | — | — | 15° 45' 40'' | 96° 06' 05'' | " | 10 | — | 3 | 0 |
| | L-4 | Light | — | — | 15° 45' 40'' | 96° 06' 05'' | " | 11 | — | 2 | 30 |
| | L-5 | Light | — | — | 15° 45' 40'' | 96° 06' 05'' | " | 12 | — | 3 | 0 |
| 197 | D-1 | 4' dredge | 14 | 25 | 14° 16' | 92° 03' | 7 m. W. of Champerico, Guatemala. | 15 | Mud. | 0 | 5 |
| | D-2 | 4' dredge | 14 | 25 | 14° 13' | 92° 02' | " | 15 | " | 0 | 5 |
| 198 | D-1 | 4' dredge | 13 | 24 | 13° 27' 20'' | 89° 19' 20'' | La Libertad, El Salvador. | 16 | " | 0 | 5 |
| | D-2 | 4' dredge | 14 | 25 | 13° 25' 50'' | 89° 19' 20'' | " | 16 | " | 0 | 5 |
| | L-1 | Light | — | — | 13° 28' 11'' | 89° 19' 14'' | " | 16 | — | 1 | 30 |
| | L-2 | Light | — | — | 13° 28' 11'' | 89° 19' 14'' | " | 18 | — | 2 | 00 |
| 199 | D-1 | 4' dredge | 16 | 29 | 13° 08' | 87° 43' | Meanguera Is., Gulf of Fonseca, El Salv. | 23 | Sand, mud, cr. shell. | 0 | 3 |
| | D-2 | 4' dredge | 5 | 9.1 | 13° 02' 30'' | 87° 29' 30'' | Monypenny Pt., Gulf of Fonseca, Nicar. | 24 | Mud. | 0 | 1 |
| | D-3 | 4' dredge | 6 | 11 | 13° 03' | 87° 30' | " | 24 | " | 0 | 2 |
| | D-4 | 4' dredge | 7 | 12.8 | 13° 03' 30'' | 87° 30' 20'' | " | 24 | " | 0 | 1 |
| | D-5 | 4' dredge | 7 | 12.8 | 13° 03' 30'' | 87° 30' 20'' | " | 24 | " | 0 | 1 |
| | D-6 | 4' dredge | 4 | 7.2 | 13° 02' 30'' | 87° 29' 30'' | " | 24 | " | 0 | 1 |
| | D-7 | 4' dredge | 6 | 11 | 13° 20' 07'' | 87° 49' | La Union, Gulf of Fonseca, El Salv. | 27 | Mud, mangrove leaves | 0 | 1 |
| | D-8 | 4' dredge | 6 | 11 | 13° 19' 53'' | 87° 48' 43'' | " | 27 | " | 0 | 2 |
| | D-9 | 4' dredge | 5 | 9.1 | 13° 19' 45'' | 87° 48' 32'' | " | 27 | " | 0 | 2 |
| | D-10 | 4' dredge | 5 | 9.1 | 13° 19' 35'' | 87° 48' 19'' | " | 27 | Mud. | 0 | 3 |
| | D-11 | 4' dredge | 5 | 9.1 | 13° 19' 24'' | 87° 48' 00'' | " | 27 | " | 0 | 1½ |
| | D-12 | 4' dredge | 5 | 9.1 | 13° 19' 08'' | 87° 47' 30'' | " | 27 | " | 0 | 3 |
| | D-13 | 4' dredge | 6 | 11 | 13° 18' 50'' | 87° 47' 07'' | " | 27 | " | 0 | 1½ |
| | D-14 | 4' dredge | 5 | 9.1 | 13° 19' 40'' | 87° 48' 23'' | " | 27 | " | 0 | 1½ |
| | D-15 | 4' dredge | 6 | 11 | 13° 19' 52'' | 87° 48' 43'' | " | 27 | " | 0 | 1½ |
| | D-16 | 4' dredge | 6 | 11 | 13° 20' 03'' | 87° 48' 57'' | " | 27 | " | 0 | 1½ |
| | D-17 | 2' dredge | 4 | 7.2 | 13° 19' 54'' | 87° 49' 07'' | " | 27 | Mud, mangrove leaves. | 0 | 1½ |
| | D-18 | 2' dredge | 4 | 7.2 | 13° 19' 50'' | 87° 49' | " | 27 | " | 0 | 1½ |
| | D-19 | 2' dredge | 3 | 5.4 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 1½ |
| | D-20 | 2' dredge | 3 | 5.4 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 1½ |
| | D-21 | 2' dredge | 3 | 5.4 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 1½ |
| | D-22 | 2' dredge | 3 | 5.4 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 1½ |
| | D-23 | 2' dredge | 3 | 5.4 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 1½ |
| | D-24 | 2' dredge | 6 | 11 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 1½ |
| | D-25 | 2' dredge | 6 | 11 | 13° 20' 03'' | 87° 49' 26'' | " | 27 | " | 0 | 2 |
| | L-1 | Light | — | — | 13° 19' 59'' | 87° 49' 15'' | " | 20 | — | 3 | 0 |
| | L-2 | Light | — | — | 13° 11' | 87° 41' 15'' | Meanguera Is., Gulf of Fonseca, El Salv. | 21 | — | 2 | 0 |
| | L-3 | Light | — | — | 13° 19' 59'' | 87° 49' 15'' | La Union, Gulf of Fonseca, El Salv. | 22 | — | 2 | 30 |
| | L-4 | Light | — | — | 13° 02' | 87° 29' | Monypenny Pt., Gulf of Fonseca, Nicar. | 23 | — | 2 | 0 |
| | L-5 | Light | — | — | 13° 02' | 87° 29' 30'' | " | 24 | — | 2 | 40 |
| 200 | D-1 | 2' dredge | 6.5 | 11.8 | 12° 28' 25'' | 87° 10' 59'' | Corinto, Nicaragua | 29 | Mangrove leaves. | 0 | 1½ |

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1937 | Bottom | Duration | | |
|-------------|-----------|-------------|---------|--------------|--------------|--------------|----------------------------------|-----------|-----------------------|----------|-------|--|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. | |
| 200 | D-2 | 2' dredge | 5.3 | 9.7 | 12° 28' 27'' | 87° 10' 55'' | Corinto, Nicaragua | Dec. 29 | Mangrove leaves. | 0 | 1½ | |
| | D-3 | 2' dredge | 2 | 3.6 | 12° 28' 28'' | 87° 10' 51'' | " | 29 | " | 0 | 3 | |
| | D-4 | 2' dredge | ½ | .9 | 12° 28' 32'' | 87° 10' 42'' | " | 29 | " | 0 | 1½ | |
| | D-5 | 2' dredge | 2 | 3.6 | 12° 28' 36'' | 87° 10' 48'' | " | 29 | " | 0 | 1½ | |
| | D-6 | 2' dredge | 2.5 | 4.6 | 12° 28' 41'' | 87° 10' 42'' | " | 29 | " | 0 | 2 | |
| | D-7 | 2' dredge | 2 | 3.6 | 12° 28' 45'' | 87° 10' 34'' | " | 29 | " | 0 | 2 | |
| | D-8 | 2' dredge | 6.6 | 12 | 12° 28' 24'' | 87° 10' 58'' | " | 29 | " | 0 | 2 | |
| | D-9 | 2' dredge | 6 | 11 | 12° 28' 27'' | 87° 11' 04'' | " | 29 | " | 0 | 2 | |
| | | | | | | | | 1938 | | | | |
| | | | | | | | | Jan. | | | | |
| | D-10 | 2' dredge | 7 | 12.8 | 12° 27' 46'' | 87° 11' 32'' | " | 5 | " | 0 | 1½ | |
| | D-11 | 2' dredge | 8 | 14.6 | 12° 27' 46'' | 87° 11' 32'' | " | 5 | Sand. | 0 | 1½ | |
| | D-12 | 2' dredge | 3 | 5.4 | 12° 27' 20'' | 87° 11' 38'' | " | 5 | Mangrove leaves. | 0 | 1½ | |
| | D-13 | 2' dredge | 3 | 5.4 | 12° 27' 14'' | 87° 11' 45'' | " | 5 | " | 0 | 3 | |
| | D-14 | 2' dredge | 3 | 5.4 | 12° 27' 30'' | 87° 12' 06'' | " | 5 | " | 0 | 3 | |
| | D-15 | 2' dredge | 1 | 1.8 | 12° 27' 32'' | 87° 12' 09'' | " | 5 | " | 0 | 5 | |
| | D-16 | 2' dredge | 4-7 | 7-13 | 12° 27' 41'' | 87° 12' 08'' | " | 5 | " | 0 | 5 | |
| | D-17 | 2' dredge | 7-10 | 13-18 | 12° 27' 46'' | 87° 12' 17'' | " | 5 | Sand. | 0 | 7 | |
| | D-18 | 2' dredge | 5 | 9.1 | 12° 27' 38'' | 87° 12' 41'' | " | 5 | Mangrove leaves. | 0 | 5 | |
| | D-19 | 2' dredge | 12-13 | 22-24 | 12° 28' 03'' | 87° 12' 39'' | " | 5 | " | 0 | 4 | |
| | D-20 | 2' dredge | 1.5 | 2.7 | 12° 27' 19'' | 87° 11' 39'' | " | 7 | " | 0 | 3 | |
| | D-21 | 2' dredge | 2 | 3.6 | 12° 27' 14'' | 87° 11' 38'' | " | 7 | " | 0 | 3 | |
| | D-22 | 2' dredge | 1.5 | 2.7 | 12° 27' 07'' | 87° 11' 37'' | " | 7 | " | 0 | 5 | |
| | D-23 | 2' dredge | 3 | 5.4 | 12° 27' 20'' | 87° 11' 35'' | " | 7 | " | 0 | 5 | |
| | D-24 | 2' dredge | 6.5 | 11.8 | 12° 27' 15'' | 87° 11' 55'' | " | 7 | " | 0 | 5 | |
| | D-25 | 2' dredge | 6.5-2.5 | 11.8-4.5 | 12° 27' 10'' | 87° 11' 57'' | " | 7 | " | 0 | 10 | |
| | D-26 | 2' dredge | 2.5 | 4.5 | 12° 27' 24'' | 87° 11' 15'' | " | 7 | " | 0 | 3 | |
| | D-27 | 2' dredge | 3 | 5.4 | 12° 28' 38'' | 87° 10' 42'' | " | 7 | " | 0 | 5 | |
| | D-28 | 2' dredge | 3 | 5.4 | 12° 28' 31'' | 87° 10' 45'' | " | 7 | " | 0 | 5 | |
| | D-29 | 2' dredge | 3 | 5.4 | 12° 28' 16'' | 87° 10' 49'' | " | 7 | " | 0 | 5 | |
| D-30 | 2' dredge | 3 | 5.4 | 12° 28' 27'' | 87° 10' 47'' | " | 7 | " | 0 | 6 | | |
| | | | | | | | 1937 | | | | | |
| | | | | | | | Dec. | | | | | |
| L-1 | Light | — | — | 12° 28' 22'' | 87° 11' 05'' | " | 28 | — | 2 | 15 | | |
| L-2 | Light | — | — | 12° 28' 22'' | 87° 11' 05'' | " | 29 | — | 1 | 30 | | |
| L-3 | Light | — | — | 12° 28' 22'' | 87° 11' 05'' | " | 30 | — | 1 | 0 | | |
| | | | | | | | 1938 | | | | | |
| | | | | | | | Jan. | | | | | |
| 201 | L-1 | Light | — | — | 12° 09' | 87° 24' | 22 m. SW. of Corinto, Nicaragua. | 7 | — | 1 | 30 | |
| 202 | L-1 | Light | — | — | 11° 15' 12'' | 85° 52' 58'' | S. Juan del Sur, Nicar. | 9 | — | 1 | 30 | |
| 203 | D-1 | 4' dredge | 15 | 27 | 10° 56' 05'' | 85° 49' 25'' | Port Parker, Costa Rica. | 20 | Sandy mud, cr. shell. | 0 | 4 | |
| | D-2 | 4' dredge | 10 | 18.2 | 10° 55' 38'' | 85° 49' 21'' | " | 20 | Shelly sand, algae. | 0 | 5 | |
| | D-3 | 4' dredge | 12 | 22 | 10° 55' 45'' | 85° 49' 05'' | " | 20 | Shelly mud. | 0 | 2 | |
| | D-4 | 2' dredge | 7 | 12.8 | 10° 55' 06'' | 85° 48' 53'' | " | 22 | Gravel, algae. | 0 | 3 | |
| | D-5 | 2' dredge | 3 | 5.4 | 10° 55' 10'' | 85° 49' 10'' | " | 22 | Shells, dead coral. | 0 | 2 | |
| | D-6 | 2' dredge | 1 | 1.8 | 10° 55' 20'' | 85° 49' 18'' | " | 22 | Rocks, gravel. | 0 | 3 | |
| | D-7 | 2' dredge | 9-5 | 16.4-9.1 | 10° 55' 43'' | 85° 49' 37'' | " | 22 | Shells, algae. | 0 | 5 | |
| | D-8 | 2' dredge | 9 | 16.4 | 10° 55' 43'' | 85° 49' 46'' | " | 22 | " | 0 | 5 | |
| | D-9 | 2' dredge | 1.5-4 | 2.7-7.2 | 10° 55' 51'' | 85° 49' 52'' | " | 22 | Coral. | 0 | 5 | |
| | D-10 | 2' dredge | 6-2.5 | 10.9-4.5 | 10° 56' 15'' | 85° 48' 47'' | " | 22 | Rocks. | 0 | 3 | |

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1938 | Bottom | Duration | |
|-------------|---------|-------------|---------|-----------|--------------|--------------|--------------------------------------|---------------------------------------|------------------------------------|----------|-------|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. |
| 203 | D-11 | 2' dredge | 2-4 | 3.6-7.2 | 10° 56' 07'' | 85° 48' 52'' | Port Parker, Costa Rica. | Jan. 22 | Rocks. | 0 | 3 |
| | D-12 | 2' dredge | 2 | 3.6 | 10° 55' 43'' | 85° 48' 44'' | " | 22 | Gravel, algae, cr. shell. | 0 | 2 |
| | D-13 | 2' dredge | 7-9 | 12.8-16.4 | 10° 55' 33'' | 85° 48' 30'' | " | 22 | Shells, algae. | 0 | 3 |
| | D-14 | 2' dredge | 4 | 7.3 | 10° 55' 29'' | 85° 48' 24'' | " | 22 | " | 0 | 5 |
| | D-15 | 2' dredge | 9-2 | 16.4-3.6 | 10° 55' 03'' | 85° 48' 25'' | " | 22 | Mangrove leaves, cr. shell, algae. | 0 | 3 |
| 204 | L-1 | Light | — | — | 10° 55' 22'' | 85° 48' 28'' | " | 12 | — | 3 | 0 |
| | L-2 | Light | — | — | 10° 55' 22'' | 85° 48' 28'' | " | 14 | — | 1 | 30 |
| | L-3 | Light | — | — | 10° 55' 51'' | 85° 48' 58'' | " | 16 | — | 1 | 30 |
| | L-4 | Light | — | — | 10° 55' 51'' | 85° 48' 58'' | " | 17 | — | 1 | 45 |
| 204 | D-1 | 2' dredge | 3 | 5.4 | 10° 52' 08'' | 85° 52' 30'' | Murcielago Bay, Costa Rica. | 23 | Sand. | 0 | 3 |
| | D-2 | 2' dredge | 4 | 7.3 | 10° 52' 05'' | 85° 52' 27'' | " | 23 | " | 0 | 3 |
| | D-3 | 2' dredge | 2.5 | 4.5 | 10° 52' 01'' | 85° 52' 23'' | " | 23 | " | 0 | 5 |
| | D-4 | 2' dredge | 2 | 3.6 | 10° 51' 55'' | 85° 52' 19'' | " | 23 | " | 0 | 5 |
| 205 | L-1 | Light | — | — | 10° 50' 45'' | 85° 45' 30'' | Potrero Grande Bay, Costa Rica. | 23 | — | 2 | 30 |
| 206 | D-1 | 4' dredge | 14 | 25.5 | 10° 37' 03'' | 85° 41' 12'' | Port Culebra, Costa Rica. | 30 | Sandy mud. | 0 | 3 |
| | D-2 | 4' dredge | 14 | 25.5 | 10° 36' 47'' | 85° 41' 10'' | " | 30 | " | 0 | 4 |
| | D-3 | 4' dredge | 14 | 25.5 | 10° 36' 22'' | 85° 41' 08'' | " | 30 | " | 0 | 5 |
| | L-1 | Light | — | — | 10° 37' 10'' | 85° 41' 18'' | " | 25 | — | 2 | 0 |
| | L-2 | Light | — | — | 10° 37' 50'' | 85° 39' | " | 28 | — | 1 | 45 |
| | L-3 | Light | — | — | 10° 35' 45'' | 85° 40' 15'' | " | 29 | — | 1 | 45 |
| | L-4 | Light | — | — | 10° 35' 45'' | 85° 40' 15'' | " | 30 | — | 2 | 15 |
| 207 | L-1 | Light | — | — | 10° 25' 20'' | 85° 48' 45'' | Bravilto Bay, Costa Rica. | 31 | — | 2 | 40 |
| 208 | D-1 | 2' dredge | 6 | 11 | 9° 51' 57'' | 85° 29' 55'' | Piedra Blanca Bay, Costa Rica. | Feb. 5 | Rocks, sand, algae. | 0 | 3 |
| | D-2 | 2' dredge | 5 | 9.1 | 9° 51' 54'' | 85° 29' 53'' | " | 5 | " | 0 | 3 |
| | D-3 | 2' dredge | 4 | 7.3 | 9° 51' 52'' | 85° 29' 46'' | " | 5 | " | 0 | 3 |
| | D-4 | 2' dredge | 6 | 10.9 | 9° 51' 49'' | 85° 29' 41'' | " | 5 | " | 0 | 3 |
| | D-5 | 2' dredge | 5 | 9.1 | 9° 51' 47'' | 85° 29' 34'' | " | 5 | " | 0 | 3 |
| | D-6 | 2' dredge | 3 | 5.4 | 9° 51' 48'' | 85° 29' 32'' | " | 5 | " | 0 | 5 |
| | D-7 | 2' dredge | 3 | 5.4 | 9° 52' 06'' | 85° 29' 49'' | " | 5 | " | 0 | 3 |
| | D-8 | 2' dredge | 3 | 5.4 | 9° 52' 06'' | 85° 30' | " | 5 | " | 0 | 5 |
| | D-9 | 2' dredge | 3 | 5.4 | 9° 52' 05'' | 85° 30' 09'' | " | 5 | " | 0 | 5 |
| | D-10 | 2' dredge | 2 | 3.6 | 9° 51' 51'' | 85° 30' 20'' | " | 5 | " | 0 | 4 |
| | L-1 | Light | — | — | 9° 51' 47'' | 85° 29' 56'' | " | 1 | — | 2 | 40 |
| | L-2 | Light | — | — | 9° 51' 47'' | 85° 29' 56'' | " | 2 | — | 2 | 0 |
| | L-3 | Light | — | — | 9° 51' 47'' | 85° 29' 56'' | " | 3 | — | 2 | 0 |
| | 209 | L-1 | Light | — | — | 9° 45' | 85° 26' | 22 m. WNW. of Cape Blanco, Costa Rica | 6 | — | 0 |
| 210 | T-1 | ½ Metre | 0 | 0 | 9° 41' | 85° 24' | " | 6 | — | 0 | 15 |
| | L-1 | Light | — | — | 9° 15' | 85° 09' | 20 m. S. of Cape Blanco, Costa Rica. | 7 | — | 2 | 0 |
| | L-2 | Light | — | — | 9° 14' | 85° 07' | " | 8 | — | 2 | 30 |
| | L-3 | Light | — | — | 9° 13' | 85° 09' | " | 26 | — | 3 | 0 |
| | T-1 | Metre | 300 | 540 | 9° 12' | 85° 05' | " | 7 | — | 4 | 0 |
| | T-2 | Metre | 400 | 730 | 9° 12' | 85° 05' | " | 7 | — | 4 | 0 |
| | T-3 | Metre | 500 | 910 | 9° 12' | 85° 05' | " | 7 | — | 4 | 0 |
| | T-4 | ½ Metre | 2 | 3.6 | 9° 12' | 85° 05' | " | 7 | — | 0 | 30 |
| T-5 | ½ Metre | 2 | 3.6 | 9° 12' | 85° 05' | " | 7 | — | 0 | 30 | |

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1938 | Bottom | Duration | |
|-------------|---------|----------------|---------|--------|-------------|--------------|--|-----------|----------------------|----------|-------|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. |
| 210 | T-6 | Metre (3 nets) | 500 | 910 | 9° 12' | 85° 05' | 20 m. S. of Cape Blanco, Costa Rica. | Feb. 7 | — | 2 | 53 |
| | T-7 | Metre (3 nets) | 500 | 910 | 9° 09' | 85° 04' | " | 8 | — | 4 | 25 |
| | T-8 | Metre (3 nets) | 500 | 910 | 9° 12' | 85° 10' | " | 27 | — | 3 | 26 |
| | T-9 | Metre | 200 | 360 | 9° 11' | 85° 08' 30'' | " | 27 | — | 3 | 32 |
| | T-10 | Metre | 500 | 910 | 9° 11' | 85° 08' 30'' | " | 27 | — | 3 | 32 |
| | T-11 | ½ Metre | 3 | 5.4 | 9° 11' | 85° 08' 30'' | " | 27 | — | 1 | 0 |
| 211 | L-1 | Light | — | — | 9° 29' | 85° 08' | 6 m. SW. of Cape Blanco, Costa Rica. | 10 | — | 0 | 20 |
| 212 | L-1 | Light | — | — | 9° 58' 15'' | 84° 59' 45'' | Puntarenas, Costa Rica | 11 | — | 8 | 0 |
| 213 | D-1 | 2' dredge | 8 | 14.6 | 9° 50' 52'' | 84° 53' 07'' | Cedro Island, Gulf of Nicoya, Costa Rica | 13 | Mud. | 0 | 3 |
| | D-2 | 2' dredge | 4 | 7.2 | 9° 50' 46'' | 84° 53' 05'' | " | 13 | " | 0 | 3 |
| | D-3 | 2' dredge | 4 | 7.2 | 9° 50' 41'' | 84° 53' 03'' | " | 13 | " | 0 | 1 |
| | D-4 | 2' dredge | 5 | 9.1 | 9° 50' 39'' | 84° 53' 07'' | " | 13 | " | 0 | 2 |
| | D-5 | 2' dredge | 4 | 7.2 | 9° 50' 37'' | 84° 53' 12'' | " | 13 | " | 0 | 2 |
| | D-6 | 2' dredge | 4 | 7.2 | 9° 50' 38'' | 84° 53' 14'' | " | 13 | Mud, sand, cr. shell | 0 | 2 |
| | D-7 | 2' dredge | 4 | 7.2 | 9° 50' 42'' | 84° 53' 17'' | " | 13 | " | 0 | 2 |
| | D-8 | 2' dredge | 4 | 7.2 | 9° 50' 45'' | 84° 53' 19'' | " | 13 | " | 0 | 3 |
| | D-9 | 2' dredge | 6 | 11 | 9° 50' 52'' | 84° 53' 23'' | " | 13 | " | 0 | 4 |
| | D-10 | 2' dredge | 10 | 18.2 | 9° 51' 01'' | 84° 53' 22'' | " | 13 | Mud. | 0 | 3 |
| | D-11 | 4' dredge | 35 | 63.7 | 9° 44' 52'' | 84° 51' 25'' | Off Ballenas Bay, Gulf of Nicoya, Costa Rica | 25 | " | 0 | 3 |
| | D-12 | 4' dredge | 35 | 63.7 | 9° 44' 24'' | 84° 51' 03'' | " | 25 | " | 0 | 5 |
| | D-13 | 4' dredge | 35 | 63.7 | 9° 43' 45'' | 84° 51' 08'' | " | 25 | " | 0 | 5 |
| | D-14 | 4' dredge | 35 | 63.7 | 9° 43' | 84° 51' 17'' | " | 25 | " | 0 | 5 |
| | D-15 | 4' dredge | 40 | 73 | 9° 42' 10'' | 84° 51' 25'' | " | 25 | " | 0 | 5 |
| | D-16 | 4' dredge | 45 | 82 | 9° 41' 10'' | 84° 51' 45'' | " | 25 | " | 0 | 5 |
| | D-17 | 4' dredge | 35 | 63.7 | 9° 42' | 84° 56' | " | 25 | " | 0 | 5 |
| | D-18 | 4' dredge | 80 | 145 | 9° 29' 30'' | 85° 06' 40'' | 3 m. off Cape Blanco, Costa Rica. | 26 | " | 0 | 10 |
| 213 | L-1 | Light | — | — | 9° 51' 30'' | 84° 52' 30'' | Cedro Island, Gulf of Nicoya, Costa Rica | 21 | — | 2 | 30 |
| | L-2 | Light | — | — | 9° 47' | 84° 53' 30'' | Alcatraz Is., Gulf of Nicoya, Costa Rica | 22 | — | 2 | 0 |
| | L-3 | Light | — | — | 9° 46' 20'' | 84° 53' 05'' | Jasper Is., Gulf of Nicoya, Costa Rica | 23 | — | 2 | 30 |
| | L-4 | Light | — | — | 9° 44' 25'' | 84° 59' 35'' | Ballenas Bay, Gulf of Nicoya, Costa Rica | 25 | — | 3 | 00 |
| 214 | D-1 | 4' dredge | 42 | 76.5 | 9° 19' 32'' | 84° 29' 30'' | 14 m. S.E. of Judas Pt., Costa Rica | Mar. 1 | Mud, shell. | 0 | 5 |
| | D-2 | 4' dredge | 43 | 78 | 9° 18' 45'' | 84° 29' 15'' | " | 1 | Mud. | 0 | 10 |
| | D-3 | 4' dredge | 50 | 91 | 9° 18' 05'' | 84° 28' 25'' | " | 1 | " | 0 | 10 |
| | D-4 | 4' dredge | 61 | 112 | 9° 17' 40'' | 84° 27' 30'' | " | 1 | Mud, rocks | 0 | 10 |
| 215 | L-1 | Light | — | — | 9° 03' | 84° 06' | 23 m. W. of Uvita Bay, Costa Rica. | 1 | — | 1 | 30 |
| 216 | L-1 | Light | — | — | 9° 08' 45'' | 83° 45' 25'' | Uvita Bay, Costa Rica | 2 | — | 4 | 0 |
| | L-2 | Light | — | — | 9° 08' 45'' | 83° 45' 25'' | " | 3 | — | 2 | 0 |
| 217 | L-1 | Light | — | — | 8° 19' | 83° 36' | 20 m. W. of Gulf of Dulce, Costa Rica | 4 | — | 0 | 30 |

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1938 | Bottom | Duration | |
|-------------|---------|----------------|---------|----------|-------------|--------------|--|-----------|-------------------------------|----------|-------|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. |
| | | | | | | | | | | | |
| 218 | D-1 | 4' dredge | 100 | 183 | 8° 35' 30'' | 83° 15' 30'' | Gulf of Dulce, Costa Rica. | Mar. 9 | Mangrove leaves. | 0 | 6 |
| 218 | D-2 | 4' dredge | 105 | 192 | 8° 35' 50'' | 83° 16' 40'' | Gulf of Dulce, Costa Rica. | 9 | Mangrove leaves. | 0 | 15 |
| | D-3 | 4' dredge | 80-60 | 145-109 | 8° 38' 10'' | 83° 16' 45'' | " | 9 | " | 0 | 10 |
| | D-4 | 2' dredge | 6 | 11 | 8° 38' 15'' | 83° 10' 25'' | Golfito, Gulf of Dulce, Costa Rica | 9 | Mangrove leaves, mud, shells. | 0 | 3 |
| | D-5 | 2' dredge | 6 | 11 | 8° 38' 15'' | 83° 10' 25'' | " | 9 | " | 0 | 3 |
| | D-6 | 2' dredge | 4 | 7.3 | 8° 38' 15'' | 83° 10' 25'' | " | 9 | " | 0 | 3 |
| | D-7 | 2' dredge | 6 | 11 | 8° 38' 15'' | 83° 10' 25'' | " | 9 | " | 0 | 3 |
| | D-8 | 2' dredge | 6 | 11 | 8° 38' 15'' | 83° 10' 25'' | " | 9 | " | 0 | 3 |
| | L-1 | Light | — | — | 8° 38' 12'' | 83° 10' 45'' | " | 6 | — | 2 | 0 |
| | L-2 | Light | — | — | 8° 38' 12'' | 83° 10' 45'' | " | 7 | — | 2 | 0 |
| | L-3 | Light | — | — | 8° 26' | 83° 08' 40'' | Pavon Bay, Gulf of Dulce, Costa Rica | 9 | — | 2 | 0 |
| 219 | T-1 | Metre (3 nets) | 300 | 540 | 8° 08' | 83° 17' | 25 m. W.xN. of Pt. Burica, Costa Rica. | 10 | — | 4 | 3 |
| | T-2 | Metre (3 nets) | 500 | 910 | 8° 03' | 83° 12' | " | 10 | — | 2 | 0 |
| 220 | L-1 | Light | — | — | 8° 07' | 82° 22' 12'' | Isla Parida, Gulf of Chiriqui, Panama. | 11 | — | 4 | 0 |
| | L-2 | Light | — | — | 8° 07' 52'' | 82° 18' 45'' | " | 12 | — | 2 | 30 |
| 221 | D-1 | 4' dredge | 35 | 64 | 7° 54' 45'' | 82° 04' 32'' | Gulf of Chiriqui, Panama. | 13 | Sandy mud. | 0 | 5 |
| | D-2 | 4' dredge | 35 | 64 | 7° 54' 15'' | 82° 04' 25'' | " | 13 | " | 0 | 5 |
| | D-3 | 4' dredge | 35 | 65 | 7° 53' 12'' | 82° 02' 45'' | " | 13 | " | 0 | 5 |
| | D-4 | 4' dredge | 38 | 69 | 7° 52' 45'' | 82° 02' | " | 13 | " | 0 | 8 |
| | D-5 | 4' dredge | 40 | 73 | 7° 52' 30'' | 82° 01' | " | 13 | " | 0 | 10 |
| 222 | D-1 | 2' dredge | 3 | 5.4 | 7° 45' 51'' | 81° 32' 21'' | Bahia Honda, Pan. | 18 | Rocks, dead coral. | 0 | 2 |
| | D-2 | 2' dredge | 4-8 | 7.2-14.5 | 7° 45' 46'' | 81° 32' 23'' | " | 18 | " | 0 | 3 |
| | D-3 | 2' dredge | 8 | 14.5 | 7° 45' 42'' | 81° 32' 24'' | " | 18 | Dead coral. | 0 | 3 |
| | D-4 | 2' dredge | 11 | 20 | 7° 45' 39'' | 81° 32' 21'' | " | 18 | Dead coral, shells, gr. mud. | 0 | 3 |
| | D-5 | 2' dredge | 11 | 20 | 7° 45' 35'' | 81° 32' 18'' | " | 18 | Mud, shells, leaves. | 0 | 10 |
| | L-1 | Light | — | — | 7° 45' 15'' | 81° 32' 10'' | " | 13 | — | 2 | 15 |
| 223 | L-1 | Light | — | — | 7° 32' | 81° 52' 30'' | Bahia Hermosa, Coiba Is., Panama. | 19 | — | 3 | 30 |
| 224 | D-1 | 4' dredge | 40 | 73 | 7° 23' 30'' | 82° 03' | Hannibal Bank, Pan. | 20 | Rocks, dead coral. | 0 | 4 |
| | D-2 | 4' dredge | 35 | 64 | 7° 23' 30'' | 82° 03' | " | 20 | Rocks, mud, dead coral. | 0 | 10 |
| | D-3 | 4' dredge | 35 | 64 | 7° 23' 30'' | 82° 03' | " | 20 | Sand, shells, algae. | 0 | 15 |
| 225 | T-1 | Metre (3 nets) | 500 | 910 | 7° 08' | 81° 57' | 11 m. SW.xW. of Jicarón Is., Panama. | 20 | — | 2 | 31 |
| 226 | L-1 | Light | — | — | 7° 05' | 81° 27' | 22 m. ESE. of Jicarón Is., Panama. | 20 | — | 0 | 30 |
| 227 | T-1 | Metre (3 nets) | 500 | 910 | 7° 00' | 80° 40' | 20 m. SW. of Morro de Puercos, Panama. | 21 | — | 3 | 41 |
| 228 | T-1 | Metre (3 nets) | 500 | 910 | 7° 00' | 79° 16' | 52 m. SE.xE. of Cape Mala, Panama. | 25 | — | 4 | 30 |
| 229 | L-1 | Light | — | — | 6° 27' | 79° 00' | 83 m. SE. of Cape Mala, Panama. | 25 | — | 0 | 35 |

| Station No. | Net No. | Type of Net | Depth | | Position | | General Locality | Date 1938 | Bottom | Duration | |
|-------------|---------|----------------|---------|----------|-------------|----------|---|---|--------|----------|-------|
| | | | Fathoms | Metres | N. Lat. | W. Long. | | | | Hrs. | Mins. |
| 230 | T-1 | Metre (3 nets) | 500 | 910 | 5° 10' | 78° 42' | 71 m. W.xS. of Cape Corrientes, Columbia. | Mar. 26 | — | 4 | 2 |
| 231 | L-1 | Light | — | — | 4° 30' | 78° 33' | | 85 m. SW. of Cape Corrientes, Columbia. | 26 | — | 0 |
| 232 | D-1 | 2' dredge | 2-8 | 3.6-14.6 | 2° 57' 30'' | 78° 11' | Gorgona, Island, Columbia. | 31 | Sand. | 0 | 30 |
| | L-1 | Light | — | — | 2° 59' | 78° 11' | " | 27 | — | 2 | 30 |
| | L-2 | Light | — | — | 2° 59' | 78° 11' | " | 28 | — | 4 | 0 |
| | L-3 | Light | — | — | 2° 59' | 78° 11' | " | 29 | — | 3 | 30 |
| | L-4 | Light | — | — | 2° 59' | 78° 11' | " | 30 | — | 4 | 0 |
| | L-5 | Light | — | — | 2° 59' | 78° 11' | " | 31 | — | 4 | 0 |
| 233 | T-1 | Metre (3 nets) | 500 | 910 | 4° 45' | 78° 02' | 55 m. SSW. of Cape Corrientes, Columbia. | Apr. 3 | — | 4 | 33 |
| 234 | T-1 | Metre (3 nets) | 500 | 910 | 7° 24' | 78° 35' | 24 m. W.xS. of Pinas Pt., Panama. | 4 | — | 4 | 27 |